

**CLAIMS**

1. System for processing data for display on a matrix screen, of the type comprising a symbol generator (101) connected to an image memory (103) itself connected to a correlator (105) making it possible to implement a processing based on microregions so as to generate the final image to be displayed on a matrix screen (102), characterized in that the image memory (103) is organized so as to be able to read n pixels in parallel and in that the correlator (105) is organized so as to process these n pixels in parallel.
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- 15 2. System according to Claim 1, characterized in that the correlator is divided into two parts (303, 304) making it possible to process the luminance and the chrominance separately so as to make it possible to perform a hierarchical processing of the colours.
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3. System according to either of Claims 1 and 2, characterized in that it comprises means (305, 306) for separately processing the colour of the strokes and the colour of the background, and a mixer (307) for making it possible to outline the elements of scenery displayed on the background in tone on tone mode.
- 30 4. System according to any one of Claims 1 to 3, characterized in that the correlator is organized in m substantially identical parallel lines making it possible for the m pixels of one of the axes of the microregions used to be processed in parallel.

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